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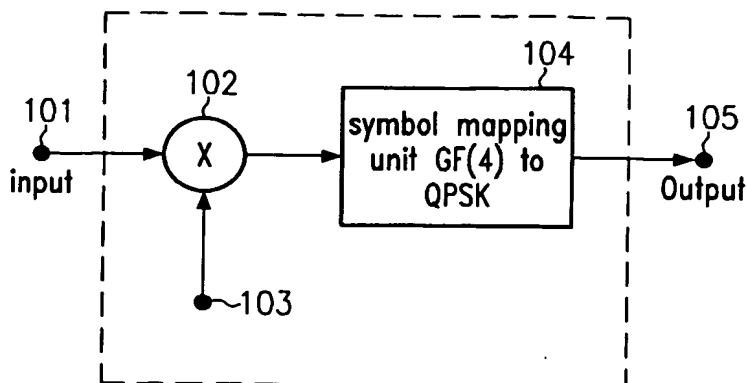
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(54) **Title:** METHOD AND APPARATUS FOR TRANSMITTING DATA IN A DIVERSITY COMMUNICATION SYSTEM EMPLOYING CONSTELLATION REARRANGEMENT WITH QPSK MODULATION



(57) **Abstract:** A method of transmitting data from a transmitter to a receiver of a diversity (e.g. ARQ or repetition coding) communication system comprising the step of encoding data received from a signal source to generate a Galois field (GF) symbols (101). The method further comprises the steps of modifying redundant GF symbols by an arithmetic operation (102) mapping the GF symbols using QPSK as modulation scheme (104) and transmitting the QPSK modulation symbols and the modified redundant symbols (105) to the receiver. Furthermore, the invention concerns a corresponding transmitter of a diversity communication system.